

SCHEDULE

Name of Work: SR Work for establishment of Two Modular OT in existing Post-OP area at ESIC MCH Sanathnagar						
S.No	DSR/ SSR	Description	Quantity	Unit	Rate	Amount
Electrical Work- (SSR Item Rate/Unit: Basic SSR rate 2025-26+CP&OH-15% +1% Labour cess+ GST 18% = Base SSR Rate * 1.37)						
DSR items rate/unit : DSR rate 2025						
1	ELEC-13.1.3.a	Supply, transportation, installation, testing and commissioning of 10 kVA, 240V DC, true online double conversion UPS system (VFI mode), 3-phase 400V ±20%, 50 Hz ±5 Hz input and 1-phase 230V, 50 Hz ±0.2 Hz output, IGBT-based rectifier and inverter (PWM, 3-level) with microprocessor/DSP control, input power factor ≥0.99, input THDi ≤5% at full load, output power factor unity, efficiency ≥94–96% at full load in online mode, suitable for 100% non-linear load and operating at 0.7 lag to 0.7 lead PF, complete with static bypass and provision for manual/maintenance bypass, inbuilt phase sequence correction, LC filters, with isolation transformer, overload capacity as per OEM standards (typically 125% for 10 minutes), pure sine wave output, forced air cooling with redundant fans ensuring ≥80% load operation on single fan failure, noise level ≤60 dB at 1 m distance, protections including input/output under and over voltage, output overcurrent, short circuit, battery overcharge and deep discharge, backfeed protection and minimum 10 kA surge protection (SPD), communication ports RS232/RS485/SNMP with open protocol for BMS/IoT integration, minimum 5-inch LCD/LED display for input, output, bypass, battery, load and temperature parameters, event logging (preferably up to 3000 events), alarms for mains failure, battery low, overload, fault, shutdown, voltage abnormalities and over temperature and battery MCCB of suitable rating and all accessories, conforming to IEC 62040-1, 2 & 3, EN 62040 and IS 16242 standards, with approved makes such as APC / Numeric / Vertiv / Fuji Electric and minimum 3 years warranty.(Preferably Numeric / Vertiv makes to maintain uniformity and ease of maintenance across the campus)	2	each	321950	643900
2	ELEC-13.2.1.c	Supply and providing of UPS cum battery rack	2	each	6932.2	13864.4
3	ELEC-13.2.2	Supply and fixing of 12V ,65AH VRLA, SMF battery in ABS Container including wire leads. Makes : Quanta / Racket / Exide / Amaron	40	each	12131.35	485254
	ELEC 1.5.8	Supply of PVC / XLPE Insulated, Armoured Copper cable as per IS 7098 / Part-I / 1988 including all transportation charges etc complete. Makes : Airson / Rhino/ Polycab/Finolex				
4	p	4 core 6sq.mm (Electrical Room to UPS)	240	meter	557.59	133821.6
5	e	2 core 10sq.mm (UPS output Panel to DB)	30	meter	542.52	16275.6
6	r	4 core 16sq.mm(Electrical Room to AHU panel)	130	meter	1672.77	217460.1
	11.1	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.				

7	11.1.33	4 X 16 sq. mm (28mm)	4	each	366	1464
8	11.1.2	2 X 10 sq. mm (19mm)	8	each	295	2360
9	11.1.32	4 x 6sq.mm	8	each	260	2080
10	10.7.1	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on wall surface/PVC conduit as required.	180	each	64	11520
11	10.8.1	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size on cable tray as required.	900	each	53	47700
12	ELEC-2.14.1.f	Supply of 63A DP MCB, 10 kA, C/D Curve ISI Mark. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / LK (L&T) Exora / Crabtree / Indo Asian / BCH (UPS output)	2	each	2329	4658
13	ELEC 2.17.11.b	Supply of DP Metal Enclosure with IP 20/30 Protection. Makes : Legrand / Schneider / Siemens / LK (L&T) / Hager / Cabtree Xpro / ABB / C&S(UPS output)	2	each	978.18	1956.36
14	ELEC-2.14.1.k	Supply of 40A FP MCB, 10 kA, C/D Curve ISI Mark. Makes : Legrand-DX3 / Schneider-Acti9 / Siemens / LK (L&T) Exora / Crabtree / Indo Asian / BCH (UPS input)	2	each	4205.9	8411.8
15	ELEC 2.17.11.b	Supply of FP Metal Enclosure with IP 20/30 Protection. Makes : Legrand / Schneider / Siemens / LK (L&T) / Hager / Cabtree Xpro / ABB / C&S(UPS output)	2	each	978.18	1956.36
16	2.21	Providing and fixing M.V. danger notice plate of 200 mm X 150 mm, made of mild steel, at least 2 mm thick, and vitreous enamelled white on both sides, and with inscription in single red colour on front side as required.	2	each	315	630
17	5.6	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe of 2.7 Meter long etc. with charcoal/ coke and salt as required.	6	each	15004	90024
18	5.10	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode including connection with brass nut, bolt, spring, washer excavation and re filling etc. as required.	30	meter	1638	49140
19	5.17	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earthing as required.	80	meter	173	13840
20	5.7	Supplying and laying 6 SWG G.I. wire at 0.50 Meter below ground level for conductor earth electrode, including connection/ termination with GI thimble etc. as required.	130	meter	62	8060

21	ELEC-1.5.5.a	Supply of 10sq.mm single core PVC / XLPE Insulated Sheathed Multi Core Bright Annealed Bare Copper Conductor Heavy Duty Industrial Cables for Voltage Grade upto 1100 Volts as per IS: 694:2010 including all transportation charges etc complete(Green Color). Makes : Finolex / RR kabel / Havells / Polycab / RPG / KEI / Gloster / V-Guard / Finecab / SPM / Gemini / Unistar / Windsor / Payal / Fortune Arrt / Avocab / Pawancab / Nakoda / HPL / Sudhakar / Bonton / Rajnigandha	700	meter	210.98	147686
	4.6	Supplying and installing following size of perforated Hot Dipped Galvanised Iron cable tray (Galvanisation thickness not less than 50 microns) with perforation not more than 17.5%, in convenient sections, joined with connectors, suspended from the ceiling with two numbers GI Suspenders i/c base of suitable size GI angle, GI bolts & nuts, fastner etc as required.				
22	4.6.2	150 mm width X 50 mm depth X 1.6 mm thickness	25	meter	803	20075
23	1.21.1	Supplying and fixing of following sizes of medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.-25mm	180	meter	168	30240
	2.3	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
24	2.3.3	12 way , Double door (EDB)	1	each	2871	2871
	2.4	Supplying and fixing following way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator).				
25	2.4.3	8 way (4 + 24), Double door(UPS DB)	1	each	6337	6337
26	2.5.3	Supplying and fixing of following ways surface/ recess mounting, vertical type, 415 V, TPN MCB distribution board of sheet steel, dust protected, duly powder painted, inclusive of 200 A tinned copper bus bar, common neutral link, earth bar, din bar for mounting MCBs (but without MCBs and incomer) as required 12 way (4 + 36), Double door(PDB & LDB)	2	each	13512	27024
27	2.23.3	Supplying and fixing Cable End Box (Loose Wire Box) suitable for following single pole and neutral, sheet steel, MCB distribution board, 240 Volts, on surface/ recess, complete with testing and commissioning etc. as required.For 12 way, Double door SPN MCBDB	1	each	895	895
28	2.24.3	Supplying and fixing Cable End Box (Loose Wire Box) suitable for following triple pole and neutral, sheet steel, MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc.as required.For 8 way, Double door TPN MCBDB	1	each	1448	1448

29	2.25	Supplying and fixing Cable End Box (Loose Wire Box) suitable for triple pole and neutral, sheet steel, Vertical MCB distribution board, 415 Volts, on surface/ recess, complete with testing and commissioning etc. as required.	2	each	1271	2542
Sub Total						1993494.22
Total Estimated cost						1993494.00

